

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,411	11/24/2003	Richard L. Baer	10021083-1	5096
68551 7590 05/01/2007 RatnerPrestia P.O. BOX 980 VALLEY FORGE, PA 19482			EXAMINER	
			LIEW, ALEX KOK SOON	
			ART UNIT	PAPER NUMBER
<i>,</i> ·			2624	
			(0)	
			MAIL DATE	DELIVERY MODE
			05/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) Office Action Summary Examiner Art Unit Alex Liew 2624 The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
Office Action Summary Examiner Alex Liew 2624 The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 24 November 2003.					
2a) ☐ This action is FINAL . 2b) ☒ This action is non-final.					
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-20</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>24 November 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received:					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:					

Application/Control Number: 10/720,411 Page 2

Art Unit: 2624

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 4, 6 8, 10 13, 15, 16, 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kakarala (US pub no 2004/0086152) in view of Shima (US pub no 2001/0046310).

With regards to claim 1, Kakarala discloses a surveillance system for detecting an event, comprising

- a sensor for capturing a current image producing sensor values representing said current image (see figure 1 – 200 – the captured data are inputted to the video surveillance system, figure 2 – 30) and
- an image processing system for performing a comparison of at least a portion of said sensor values representing said current image and spatially corresponding sensor values of a stored reference captured (see figure 4 320 and 330 the difference between the current image representation coefficients are compared to the reference image representation coefficient to obtain a difference between both images), said image processing system further sends an event notification in said current image based upon said comparison (see figure 3 124 and 40 –

Application/Control Number: 10/720,411

Art Unit: 2624

an event notification is sent when the difference value is greater than threshold, figure 3 - 340).

In addition, the first exposure time when the video camera, shown in Kakarala of figure 1 – 200, captures images continuously for a period of time until an event is detected, but it only takes an instant to send the event notification, where the time it takes to wait for an event to happen is usually longer (on average) than the time it takes for the system to send an event notification. Kakarala discloses sending an event notification, but does not take an extra step to detect more images of the scene after scene is identified to having an event. Shima discloses capturing event images after an event had been detected (see paragraph 49 – once there is a signal sent to the alarm, the alarm will switch the image recorder to recording mode to capture images of the event).

One skill in the art would include a step of capturing an event image after an event had been detected because the personnel in the security office may examine the event images to see if there is any suspicion characters (see Kakarala figure 1 – 250), so proper actions may be taken to insure the safety of the secure facility.

With regards to claim 2, Kakarala discloses a surveillance system of claim 1, wherein said image processing system is configured to perform said comparison by computing a difference value between at least a portion of sensor values representing said current image and spatially corresponding sensor values representing said reference image (see figure 4 - 320).

Art Unit: 2624

With regards to 3, Kakarala discloses a surveillance system of claim 2, wherein said image processing system is further configured to perform said comparison by determining whether said difference value exceeds threshold, said image processing system being configured to detect said event when said difference values exceeds said threshold (see figure 4 - 330).

With regards to claim 4, Kakarala discloses a surveillance system of claim 1, wherein said image processing system is further configured to replace said image with said current image (see figure 13 – 920).

With regards to claim 6, Kakarala takes images of scene until an event is detected, the selection of the first exposure time is a matter of how often the camera system detects an object in a scene, if there is people are detected in the scene quite often, a shorter first exposure time is selected and if people are not detected as frequent, a longer first exposure time is selected. The selection of the second exposure time is the time duration of the event notification was sent.

With regards to claim 7, an extension to the arguments of claim 1, Shima discloses a storage medium for storing said event image (see paragraph 49 – the image recorder is switch to recording status, event images are recorded and place in a storage medium).

Application/Control Number: 10/720,411

event images are received).

Art Unit: 2624

With regards to claim 8, Kakarala discloses a surveillance system of claim 1, further comprising a transmission interface for transmitting event notification to an external security system and combined with Shima's recording status to captured and store event images, Kakarala and Shima disclose the claimed invention of claim 8, for

sending event images to the security center (see figure 1 – 250 – is where current and

With regards to claim 10, see the rationale and rejection for claim 1.

With regards to claim 11, see the rationale and rejection for claim 2.

With regards to claim 12, see the rationale and rejection for claim 3.

With regards to claim 13, see the rationale and rejection for claim 4.

With regards to claim 15, see the rationale and rejection for claim 8.

With regards to claim 16, see the rationale and rejection for claim 15. In addition, it is well known in the art to transmit data through a wireless channel (MPEP 2144.03). One skill in the art would transmit data through a wireless channel is because to reduce the cost of cable wires and labor of placing / connecting them from the security office to the camera.

Art Unit: 2624

With regards to claim 18, see the rationale and rejection for claim 2.

With regards to claim 19, see the rationale and rejection for claim 3.

3. Claims 5, 14 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kakarala ('152) in view of Shima ('310) as applied to claim 1 further in view of Hansen (US pat no 6,081,606).

With regards to claim 5, Kakarala discloses all of the claim elements / features as discussed above in rejection for claim 1 and incorporated herein by reference, but fails to disclose illuminating an area after an event is detected. Hansen discloses illuminating an area after an event is detected (see column 2 lines 37 – 41) and Shima discloses taking images after an event is detected (see paragraph 49). The combination of Kakarala, Shima and Hansen discloses the claimed invention of claim 5. One skill in the art would include a step of illuminating an area after an event is detected because capturing an image in a low illuminated area will result in low signal to noise ratio to the image, providing an illuminator will increase signal to noise ratio and improve image quality.

With regards to claims 14 and 17, see the rationale and rejection for claim 5.

Art Unit: 2624

4. Claims 9 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kakarala ('152) in view of Shima ('310) as applied to claim 1 further in view of Waxman (US pat no 5,909,244).

With regards to claim 9, Kakarala discloses all of the claim elements / features as discussed above in rejection for claim 1 and incorporated herein by reference, but fails to disclose illumination provided from one centi-lux to one lux. Waxman discloses illuminating an area under surveillance between one centi-lux to one lux (see column 4 lines 64 – 67). Waxman also suggests having low-light illumination is critical in image surveillance (see column 3 lines 16 – 19). One skill in the art would include a step providing low illumination to an observe area because to prevent people from passing the camera from noticing, that way a suspicion character will be caught off guard, does not notice the camera, when performing a criminal act, allowing security to take necessary actions.

With regards to claim 20, see the rationale and rejection for claim 9.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alex Liew whose telephone number is (571)272-8623. The examiner can normally be reached on 9:30AM - 7:00PM.

Application/Control Number: 10/720,411

Art Unit: 2624

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Mancuso can be reached on (571)272-7695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Alex Liew AU2624 4/23/07

